

AMENDMENTS TO THE CLAIMS

1-30. (Cancelled)

31. (New) A vibration device comprising:

upper and lower cases combined with each other to form a case;
a magnetic force generating unit provided on at least one surface of the upper and lower cases;
at least one magnet disposed to be opposite to the magnetic force generating unit;
a weight combined with the at least one magnet; and
at least one elastic unit configured to support the weight elastically,
wherein the at least one elastic unit is contacted and supported with the case.

32. (New) The vibration device according to claim 31, wherein the at least one elastic unit is contacted and supported with the lower case.

33. (New) The vibration device according to claim 31, wherein the at least one elastic unit is contacted and supported with the upper case.

34. (New) The vibration device according to claim 31, further comprising a fixing member configured to fix ends of the at least one elastic unit.

35. (New) The vibration device according to claim 31, wherein the at least one elastic unit includes a strip of a closed-curve shape and a plurality of support legs extended from the strip, and

wherein the support legs form a downwardly turning curve in an axial direction of the strip.

36. (New) The vibration device according to claim 35, wherein the strip has a polygonal or circular shape.

37. (New) The vibration device according to claim 31, wherein the at least one elastic unit is a coil spring of a circular or polygonal conical shape.

38. (New) The vibration device according to claim 31, wherein the magnet is formed on only one surface of the weight opposite to the magnetic force generating unit.

39. (New) The vibration device according to claim 31, wherein the magnetic force generating unit is a coil.

40. (New) The vibration device according to claim 31, wherein the at least one elastic unit includes at least two elastic units, and

wherein elastic unit insert grooves are formed on the upper and lower surfaces of the weight so that the at least two elastic units are inserted and fixed therein respectively.

41. (New) The vibration device according to claim 34, wherein the fixing member includes protrusions at upper and lower ends to be contacted with the upper and lower cases and a recess depressed at a center thereof, and

wherein fixing grooves are formed in ends of the protrusions respectively so as to fix ends of the at least two elastic units.

42. (New) The vibration device according to claim 31, wherein the at least one magnet includes at least two magnets formed on both upper and lower surfaces of the weight so as to be opposite to the magnetic force generating unit formed on the one surface of each of the upper and lower cases.

43. (New) A vibration device comprising:

a casing body including an upper surface, a lower surface and a side surface;

a weight including at least one magnet disposed in the casing body;

at least one elastic unit configured to support the weight elastically and contacted with the casing body; and

a magnetic force generating unit configured to generate a magnetic force to vibrate the weight in the casing body,

wherein a distance between a side surface of the weight and a side surface of the casing body is smaller than a distance between a contact portion of the at least one elastic unit with the casing body and the side surface of the casing body.

44. (New) The vibration device according to claim 43, wherein the at least one elastic unit is contacted with the lower surface of the casing body.

45. (New) The vibration device according to claim 43, wherein the at least one elastic unit is contacted with the upper surface of the casing body.

46. (New) The vibration device according to claim 43, wherein the at least one elastic unit includes a strip of a closed-curve shape and a plurality of support legs extended from the strip, the strip being connected to the weight and the plurality of support legs being connected to the casing body such that the weight is suspended in the casing body.

47. (New) The vibration device according to claim 43, further comprising a fixing member attached to the casing body and configured to support the at least one elastic unit.

48. (New) The vibration device according to claim 47, wherein the fixing member is contacted with the upper surface, the lower surface and the side surface of the casing body.

49. (New) The vibration device according to claim 47, wherein the fixing member includes a recess depressed at a center thereof,

wherein the recess is formed to ensure a space sufficient for a weight extension to be capable of moving vertically, and

wherein the weight extension extends a predetermined length from the elastic insert

grooves to an inner side of the recess without contacting the recess.

50. (New) The vibration device according to claim 43, wherein the strip has a polygonal or circular shape.

51. (New) The vibration device according to claim 43, wherein the at least one elastic unit is a coil spring of a circular or polygonal conical shape.

52. (New) The vibration device according to claim 43, wherein the magnet is formed on only one surface of the weight opposite to the magnetic force generating unit.

53. (New) The vibration device according to claim 43, wherein the magnetic force generating unit is a coil.

54. (New) The vibration device according to claim 43, wherein the at least one elastic unit includes at least two elastic units, and

wherein elastic unit insert grooves are formed on the upper and lower surfaces of the weight so that the at least two elastic units are inserted and fixed therein respectively.

55. (New) A vibration device comprising:

a casing body including an upper surface, a lower surface and a side surface;

a weight including at least one magnet disposed in the casing body;

an elastic unit configured to support the weight elastically and contacted with the casing body and the weight; and

a magnetic force generating unit configured to generate a magnetic force to vibrate the weight in the casing body,

wherein the magnetic force generating unit and the contact portion of the elastic unit and the casing body are formed on a same horizontal plane.

56. (New) The vibration device according to claim 55, wherein the magnetic force generating unit is formed on the lower surface of the casing body.

57. (New) The vibration device according to claim 55, wherein the elastic unit is contacted and supported with the lower surface of the casing body.

58. (New) The vibration device according to claim 55, wherein the magnet and the contact portion of the elastic unit and the weight are formed on a same horizontal plane.

59. (New) A vibration device comprising:

a case;

a terminal plate attached to one side of the case and connected to an external power source;

a vibrating plate disposed in an upper portion of the case;

a voice coil disposed below the vibrating plate;

a magnetic force generator formed below the voice coil;
a 3-dimensional elastic unit for elastically supporting the magnetic force generator; and
upper and lower covers formed above and below the case to protect inner components
between the upper and lower covers,
wherein the 3-dimensional elastic unit is contacted and supported with the lower surface
of the case.

60. (New) The vibration device according to claim 59, wherein the magnetic force
generator comprises:

a magnet;
a yoke formed to surround the magnet; and
a plate seated upon the yoke.